

## PRODUCT BULLETIN

# NO BULL® LCM LOST CIRCULATION MATERIAL



LCM BEFORE ABSORPTION



LCM AFTER ABSORPTION

## PRODUCT DESCRIPTION

NO BULL® LCM is a blend of highly-processed, lightweight, 100% organic RECYCLED plant fibers that interweave and plug fractures and voids immediately. Compatible with water or oil-based drilling fluids, NO BULL® LCM is proven to be a superior sealant in down-hole applications as well as extremely cost effective...a little goes a long way!

\*Not recommended for absorbing strong oxidizing agents, strong acids or caustics.

\*\* 7-to-1 claim on weight to weight absorption of water. Fluids and absorbency rates vary by product & application. Rates listed should be treated as approximations.

## BENEFITS

- ◆ PROVEN TO STOP MUD LOSS IMMEDIATELY
- ◆ HIGHLY COST EFFECTIVE
- ◆ USDA CERTIFIED BIOBASED PRODUCT 100%
- ◆ FOR ALL TYPES OF DRILLING FLUIDS
- ◆ 7X OIL ABSORPTION
- ◆ 100% BIODEGRADABLE
- ◆ EXPANDS 1.5 TIMES ITS ORIGINAL DRY SIZE
- ◆ STABLE IN HIGH-TEMP APPLICATIONS
- ◆ EASILY MIXES WITH ALL KINDS OF MUDS
- ◆ CONSISTENT QUALITY FROM BAG TO BAG
- ◆ SILICA-FREE
- ◆ MADE IN THE USA

## SUSTAINABLE

- ◆ NOT HARMFUL TO THE ENVIRONMENT
- ◆ PRODUCTION OF LCM DOES NOT DEplete NATURAL RESOURCES
- ◆ 100% RECYCLED FROM VIRTUALLY UNLIMITED SOURCES

## APPLICATION

Typically mixed at 2 lbs per barrel of mud, NO BULL® LCM is highly cost effective compared to other LCM products, organic or synthetic.

Manufactured by NO-BULL®  
A Division of NCS, Inc.

130 Industrial Dr. Chambersburg, PA 17201  
717-261-5711 [www.nobullsupply.com](http://www.nobullsupply.com)

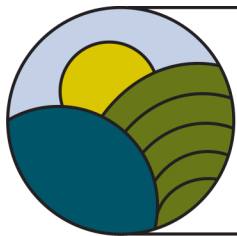


## SPECIFICATION & PACKAGING

# NO BULL®

# LCM

## LOST CIRCULATION MATERIAL



**USDA  
CERTIFIED  
BIOBASED  
PRODUCT**  
PRODUCT 100%

## HANDLING AND STORAGE

Store in cool, dry well-ventilated area away from ignition sources and strong oxidizing agents. Please re-view the Safety Data Sheet thoroughly before using this product under resources at [www.nobullsupply.com](http://www.nobullsupply.com).

## TYPICAL PHYSICAL PROPERTIES

Appearance..... Brown, fibrous material  
Specific Gravity..... 0.328  
Water Solubility..... minimal  
Bulk Density..... 10 lb/cubic foot 270 lb/cubic yard  
Acid Solubility..... 65% soluble in 15% Hydrochloric acid

## PARTICLE SIZE DISTRIBUTION

|                     |       |
|---------------------|-------|
| Retained on 10 Mesh | 19.6% |
| Retained on 20 Mesh | 20.6% |
| Retained on 40 Mesh | 24.9% |
| Retained on 60 Mesh | 17.8% |
| Retained on 80 Mesh | 5.9%  |
| Passing 80 Mesh     | 9.1%  |

## PACKAGING

No-Bull® LCM is available in 1 Cu.Ft. 5 mil UV resistant bags with a waterproof UV resistant hood via full truck loads or by the pallet.

Shrink-wrapped pallet: 78 bags

Full truckload: 2,028 bags

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